

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 31 MAY 2005
WIPO PCT

Applicant's or agent's file reference 173.937PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/SE 2003/002096	International filing date (<i>day/month/year</i>) 29.12.2003	Priority date (<i>day/month/year</i>) 20.01.2003
International Patent Classification (IPC) or national classification and IPC F41J1/12		
Applicant Moberg, Gerth		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (*sent to the applicant and to the International Bureau*) a total of 3 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

Date of submission of the demand 11.08.2004	Date of completion of this report 10.05.2005
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE 2003/002096

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:

- ☐ international search (under Rules 12.3 and 23.1(b))
☐ publication of the international application (under Rule 12.4)
☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

☐ the international application as originally filed/furnished

☒ the description:

pages 1 - 12 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☒ the claims:

pages _____ as originally filed/furnished

pages* _____ as amended (together with any statement) under Article 19

pages* 1 - 3 received by this Authority on 24.01.2005

pages* _____ received by this Authority on _____

☒ the drawings:

pages 1 - 8 _____ as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE 2003/002096

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1 - 13</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1 - 13</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1 - 13</u>	YES
	Claims	_____	NO

2. Citations and explanations (Rule 70.7)

Document US 5901960, A, which is considered to represent the most relevant state of the art, discloses a device for capturing projectiles from which the subject-matter of claim 1-13 differs in that tightly packed non-flowable material adheres to projectiles that have penetrated through the top layer and the non-flowable material is held inside a water tight container.

The subject-matter of claim 1-13 is therefore novel (Article 33(2) PCT).

REPLACEMENT SHEET

24 -01- 2005

AMENDED CLAIMS

1. An apparatus for installation at shooting ranges, comprising:
a housing (12) having a resilient top layer (24) and a flexible bottom layer (26), the layer (26) extending along an inclined bottom surface (28) and over an upwardly protruding support member (30) to a front side (34), the top layer (24) being attached to the layer (26) at the front side (34) to form a water-tight container (25);
a stationary non-flowable material (16) tightly packed in the container (25) for adhering to projectiles that have penetrated through the top layer (24); and
the inclined bottom surface (28) being inclined at an angle (20) relative to a horizontal plane (21), the angle (20) being less than an angle of repose (23) of the granulated material (16).
2. The apparatus according to claim 1 wherein the housing (12) is in operative engagement with a rectangular housing (14) filled with a granulated material (116) and having a resilient front layer (106) for permitting projectiles (117) to pass therethrough.
3. The apparatus according to claim 2 wherein the housing (12) has a horizontal segment (50) disposed at an upper end (51) of the housing (12) and in front of the front layer (106), the segment (50) and the front layer (106) having a gap (52) defined therebetween.

REPLACEMENT SHEET

AMENDED SHEET

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4. The apparatus according to claim 1 wherein a supporting member (32) is placed on top of the member (30) and the member (32) extends an entire width (W) of the housing, the housing (12) has a dewatering means (36) disposed therein.

5. The apparatus according to claim 4 wherein the bottom layer (26) and the upper layer (24) is attached to the member (32).

6. The apparatus according to claim 2 wherein the housing (14) has a watertight bottom layer (120) extending upwardly on a portion of an inside of the front layer (106).

7. The apparatus according to claim 1 wherein the member (30) is substantially perpendicular to the bottom surface (28) and the bottom layer (26).

8. The apparatus according to claim 2 wherein the housing (14) has an L-shaped concrete wall (58) for supporting a lid (60).

9. The apparatus according to claim 8 wherein the lid (60) has a downwardly protruding protector (64).

REPLACEMENT SHEET

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10. The apparatus according to claim 1 wherein the apparatus has an inclined bullet diverter (302) disposed at below a set of targets (308).

11. The apparatus according to claim 1 wherein the housing (12) has a horizontal segment (50) disposed at an upper end (51) of the housing (12).

12. The apparatus according to claim 1 wherein the bottom layer (26) is attached to the box (12) and has an area (27) disposed outside the box (12).

13. The apparatus according to claim 1 wherein the bottom layer (26) extends in a direction to divert water therefrom.